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TITLE: Device for transmitting infrared signal of remote control using power line communication

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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: KR2002090420A

BASIC-ABSTRACT:

NOVELTY - A device for transmitting an infrared signal of a remote control using power line communication is provided to convert a communication format of an infrared signal of a remote control into a power line communication format, and to transmit the signal to an infrared signal receiver, then to convert the received signal into an infrared signal of the remote control, thereby remotely controlling home appliances.

DETAILED DESCRIPTION - A remote control (10) delivers an infrared signal.

A

transmission terminal (20) converts the infrared signal into a communication format of a power line, and loads a signal of the communication format into a power line of a low frequency to transmit the signal. A receiving terminal (30) converts a high-frequency communication format signal into a digital infrared format signal, and converts the converted signal into an infrared signal for remotely controlling home appliances. The transmission terminal comprises as follows. An infrared signal receiver converts the infrared signal into a digital signal. A transmission microcomputer analyzes an electrical digital signal to check whether the signal has a right infrared transmission format, and converts the checked digital signal into a transmission format of a power line, then adds an address of a receiving terminal. A power line communication transmitter converts the digital signal into a high frequency signal, and loads the signal into a power line of a low frequency to transmit the signal.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: DEVICE TRANSMIT INFRARED SIGNAL REMOTE  
CONTROL POWER LINE  
COMMUNICATE

DERWENT-CLASS: W01 W03 W05

EPI-CODES: W01-B06; W03-G05A; W05-D;